

IR 6969 Revisions Since March 2003 Publication

NOTE: GMP 14 was provided on the original CD-ROM, in Word and Adobe PDF on the website in March 2003, but was missing in the original printed version provided in March 2003. Subsequent printed versions that have been used in seminars have included the printed version of GMP 14.

Revisions July 2003

SOP 4

An error was corrected in the example on p. 15 to 16. The negative sign for 0.126 mg and 0.126 49 mg was missing in the March version. The calculated C_x value should be -0.126 49 mg and the rounded value -0.126 mg.

SOP 8

The wording was clarified in sections 2.4.3, 2.5.3, 2.6.2, 3.2, to clarify that the “sensitivity error” refers to the error in the nominal mass of a division. In section, 2.5.7, the following underlined clause was inserted: no more than 10 without rechecking the standard.

Revisions December 2003

GLP 4

The reference to NIST Handbook 130 was corrected from section 6 to section 12 (2004 version).

SOP 4

Table I, Echelon III was updated to reflect environmental criteria given in NIST Handbook 143, Program Handbook, 2003. (Temperature range was extended to 27 °C, maximum change per hour was increased to 2 °C, and relative humidity limits were changed to allow $\pm 20\%$ / 4 h.

SOP 7

Table I, Echelon III was updated to reflect environmental criteria given in NIST Handbook 143, Program Handbook, 2003. (Temperature range was extended to 27 °C, maximum change per hour was increased to 2 °C, and relative humidity limits were changed to allow $\pm 20\%$ / 4 h. Subscripts for the tare weights on the check standard on the datasheets were changed from t_x to t_{sc} .

SOP 8

Table I, Echelon III was updated to reflect environmental criteria given in NIST Handbook 143, Program Handbook, 2003. (Temperature range was extended to 27 °C, maximum change per hour was increased to 2 °C, and relative humidity limits were changed to allow $\pm 20\%$ / 4 h.

SOP 30

A space was added to the first sentence in section 1.2.2., between the words be calibrated.

*Section 8, Statistical Techniques**Section 8.6*

The Greek letter sigma (σ) replaced the incorrect variable “s” in the table as the known standard deviation. NBS replaced NIST in the references to Handbook 91 because this reference was originally published by NBS.

*Section 9, Reference Tables**Table 9.1*

An infinity symbol has been inserted in place of the number “4” which printed in the first column, last row. Formatting of the d_2^* notation was edited. The Greek letter nu (ν) was inserted in the text below the table where it was inadvertently omitted. The formatting of the © symbol was corrected.

Table 9.2

The values for the confidence levels noted for 100 should be 99.999 to the level noted in the original. E.g., $100 - 10^{-9}$ is: 99.999 999 99. A comma was used in IR 6969 instead of the minus sign. This has been corrected.

Table 9.3

A space was inserted between the number and percent symbol in the first row according to NIST SP 811. NBS replaced NIST in the references because these references were originally published by NBS. An infinity symbol was inserted in the first column, last row where it was missing.

Table 9.4

The n1 value was moved to the right side of the diagonal slash mark to indicate the degrees of freedom for the numerator. All numbers in the column for 20 degrees of freedom from 4 degrees of freedom in the denominator to infinity were incorrectly referencing the same values in the column for 8 degrees of freedom. All values have been corrected.

Table 9.6

The Greek letter gamma (γ) was missing in the first row heading before the equal sign. NBS replaced NIST in the reference because this reference was originally published by NBS.

Table 9.7

NBS replaced NIST in the reference because this reference was originally published by NBS. The font for the Greek letter alpha on p. 9 of 13 (Table 9.7, Part 2) was increased to match the other font sizes.

Table 9.8

The density for 16.9 °C was corrected from 0.997 890 g/cm³ to 0.998 790 g/cm³. The sentence: ‘Reference equations for Air-Saturated distilled water may be used.’ was changed to: ‘Reference equations for Air-Saturated or Air-Free distilled water may be used but reference source should be noted.’

Table 9.11

NBS replaced NIST in the reference because this reference was originally published by NBS.